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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

Number 110 June, 1923

FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Entomologist in Charge

Dr. D. T. Fullaway of Hawaii has been appointed specialist in parasites of white grubs and has sailed for Yokohama, Japan, where he will be associated with C. P. Clausen in the Bureau's search for parasites of the Japanese beetle. Dr. J. F. Illingworth also is now in Japan for the purpose of searching for parasites of this beetle.

O. I. Snapp, in charge of peach insect investigations at Fort Valley, Ga., reports that specimens of *Conotrachelus anaglypticus* Say and *C. cribricollis* Say are being taken occasionally when jarring for the plum curculio, *C. nenuphar* Herbst. *C. anaglypticus* breeds in peach, and the life cycle is very similar to that of *C. nenuphar*.

Adults of the first generation of the plum curculio started to emerge June 7. They were leaving the soil in numbers during the 10 days following, as indicated by an increase of over 100 per cent in the number collected during that time by jarring. On account of the lateness of the peach crop this year, it is believed that the Hileys as well as the Georgia Belles and Elbertas will be attacked by second-generation larvae.

Parasites of *Conotrachelus nenuphar* are in evidence this year. Chief among these are *Triaspis curculionis* Fitch. Some boxes containing larvae of *C. nenuphar* show *T. curculionis* parasitism as high as 14 per cent.

Fred E. Brooks, of the French Creek, W. Va., station, was in Washington during the week of June 10 for a conference regarding control of nut weevils in the Department's experimental chestnut orchards at Bell, Md. He also visited nut-tree nurseries and orchards in Dinwiddie County, Va., where there has been a serious outbreak of the hickory twig-girdler, *Oncideres cingulata* Say.

Dr. E. D. Ball, accompanied by Dr. A. L. Quaintance, recently visited the boll weevil station at Florence, S. C., being conducted by the Bureau of Entomology in cooperation with Clemson College. A visit was also made to the extensive plant-breeding farms of David R. Coker at Hartsville, S. C.

SOUTHERN FIELD-CROP INSECT INVESTIGATIONS

J. L. Webb, Entomologist Acting in Charge

Doctor Hunter spent a few days in Washington during the month conferring

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with the Federal Horticultural Board, and attending to various Bureau matters, including the airplane dusting experiments in Louisiana.

R. C. Gaines, of the boll weevil force, accompanied Doctor Hunter to Washington to confer with the statisticians of the Bureau of Agricultural Economics who are cooperating with the Boll Weevil Laboratory in working up statistics relating to the boll weevil and its depredations.

F. C. Bishopp, in charge of the Dallas, Tex., Laboratory, recently made a trip to Middletown, N. Y., in connection with ox-warble investigations. He was in Washington June 29 and 30 for conferences with several Department officials.

Temporary employes have been added to the field force as follows:

Boll Weevil Laboratory, Tallulah, La.--

Wm. C. Gideon	Albert L. Monroe
Jos. Nolan Harvey Jr.	R. W. Necaise
Sterling B. Hendricks	Sherrill Sevier
L. P. Hodges	

Tobacco Insect Laboratory, Clarksville, Tenn.--

L. N. Judah	F. C. Plummer
Scott C. Lyon	W. B. Weakley

Screwworm Substation, Uvalde, Tex.--

Graden Barnett

TRUCK-CROP INSECT INVESTIGATIONS

J. E. Graf, Entomologist Acting in Charge

David E. Fink, Riverton, N. J., visited Washington en route to Norfolk, Va., where he investigated the value of ladybirds in controlling various aphids affecting truck crops in that region. This work was undertaken to check up results obtained from the introduction of ladybirds by the Bureau of Entomology in 1912-1914. Mr. Fink reports that ladybirds were found abundantly in all fields.

E. G. Smyth reports from Guatemala that he has not yet found any specimens of the Mexican bean beetle, although a few adults of Epilachna borealis Fab. have been noted on cucurbits in the field. He states that throughout a large part of northern Guatemala beans are blooming, so that it may be reasonably expected that E. corrupta Muls. will soon be in evidence. According to Biologia Centralia-Americana, this species was collected both at Guatemala City and at Duenas in Guatemala. Mr. Smyth is especially interested in an effort to obtain parasites of the eggs and pupae of this insect.

C. H . Popenoe is engaged at Sligo, Md., in a study of chemotropism, with especial attention to the discovery of attractants or repellents for the

more important truck-crop insects. Preliminary investigations will cover tests with synthetic aromatic chemicals in the hope that compounds of immediate use in practical insect control may be determined.

H. L. Weatherby, for a number of summers connected with Truck-Crop Insect Investigations as special field assistant, has received temporary appointment to assist N. F. Howard in experiments against the Mexican bean beetle at Birmingham, Ala.

Guy Fletcher has been temporarily appointed junior entomologist to assist C. E. Smith at Baton Rouge, La., in Truck-Crop Insect Investigations.

W. V. Reed, I. J. Condit, and G. E. Riley, for a number of years connected with this Bureau as collaborators, are now engaged in commercial work.

W. W. Porter, agent, engaged in eradication of the sweet-potato weevil in Mississippi in cooperation with the State Plant Board, has resigned.

BEE CULTURE INVESTIGATIONS

E. F. Phillips, Apiculturist in Charge

The Maryland State Beekeepers' Association will hold their regular midsummer meeting at the Bee Culture Laboratory, Somerset, Md., on Saturday afternoon, July 28. All who are interested are invited to attend.

FOREST INSECT INVESTIGATIONS

T. E. Snyder, Entomologist Acting in Charge

Beginning July 1, Dr. A. D. Hopkins, Forest Entomologist in Charge since July 1, 1902, is to devote all of his time to research in connection with bioclimatics.

Dr. F. C. Craighead, formerly engaged in Forest Insect Investigations, who has been doing forest insect work in Canada, is to assume duties as Forest Entomologist in Charge in September or October of this year.

On July 1, S. A. Rohwer was transferred from the Forest Insect Investigations to the miscellaneous fund for duty in the U.. S. National Museum.

In response to a request from the National Park Service, J. C. Evenden left the Forest Insect Field Station at Coeur d'Alene, Idaho, June 6, to make an examination of serious defoliation apparently caused by the spruce

budworm in the vicinity of the Tower Falls and Camp Roosevelt section, Yellowstone National Park. On his return Mr. Evenden will make an examination of a Dendroctonus control project near Boise, Idaho, which is being conducted by means of logging, and also an area defoliated by the white pine butterfly. The Dendroctonus control project on the Helena National Forest was completed May 26. Approximately 500 trees were treated.

MISCELLANEOUS

(Items from the National Museum contributed by S. A. Rohwer)

W. S. Fisher has practically completed a manuscript dealing with the West Indian beetles of the family Buprestidae. In connection with his studies on the species of this family Mr. Fisher has had an opportunity to examine not only the material in the National Collection but also material from the British Museum of Natural History, the Museum of Comparative Zoology, the American Museum of Natural History, the Carnegie Museum, and the Poey Collection in the Philadelphia Academy of Sciences. Besides this he has had an opportunity to study material from the collections of private workers, and many thanks are due to some of these, especially Professor Wickham and Prof. S. C. Bruner, for the generous donations they have made to the National Collection.

Mr. Heinrich has visited the collections of the American Museum, New York, to study the Kearfott types of microlepidoptera, and also the collections at the academy of Natural Sciences, Philadelphia, to study the Clemens types.

Mr. Rohwer spent a few days comparing specimens in the collections in the American Museum of Natural History, New York, and in the Philadelphia Academy of Natural Sciences.

On June 22 Miss Isabel Cooper, scientific assistant of the Williams Galapagos Expedition, brought to Washington for identification the Heterocera and Hymenoptera secured by this expedition. It is understood that the types of all the new species are to be retained for the National Collection. These collections will be studied by Mr. Schaus and Mr. Rohwer.

At the same time Miss Cooper took away several thousand Lepidoptera which had been secured by William Beebe while working at the British Guiana Experiment Station. These specimens had been identified by Mr. Schaus and are being returned to the New York Zoological Society for their collections. The work at the British Guiana Experiment Station and also the work done by the Williams Galapagos Expedition is carried on under the direction of William Beebe, with headquarters at the New York Zoological Gardens.

LIBRARY

Mabel Colcord, Librarian

New Books

Beeson, C. F. C.
Damage to timber by insects. (Indian Forest Records, v. 9, pt. 5, p. 81-93.) Delhi, 1922.

Bolton, Herbert.
A monograph of the fossil insects of the British coal measures, pt. 1. London, Printed for the Palaeographical Society, 1921. (Also issued as Palaeontological Society Monographs, v. 73, pt. 3.)

Drieberg, C.
Bee-keeping for beginners ... Colombo, Ceylon, H . Ross Cottle, Government Printer, 1923. 20 p., 4 pl. (Ceylon Dept. Agr. Bul. 63.)

Edwards, Tickner.
Bee-keeping for all, a manual of honey-craft. London, Methuen & Co., Ltd., 1923. 136 p., illus., plates.

Gray, G. P., and Colby, G. E.
Economic poisons 1920-1922. Sacramento, California State Printing Office, 1923. 62 p. (Special Publication 34.)

Great Britain Department of Scientific and Industrial Research.
The cleaning and restoration of Museum exhibits. 1st-2nd report upon investigations conducted at the British Museum. plates.

Hall, M. C.
Diagnosis and treatment of internal parasites ... Chicago, Veterinary Medicine, 1923. 96 p., illus. "This is the first of a series of books on parasitology of domestic animals by Dr. Maurice C. Hall to be published by Veterinary Medicine. The entire series will contain about 3000 pages."

Hall, W. J.
Observations on the Coccidae of Egypt. Cairo, Government Press, 1922. 54 p., 3 pl. (Egypt. Min. Agr. Tech. & Sci. Service Bul. 22.)

Hall, W. J.
The outbreak of Pseudococcus sacchari Ckll. on the sugar cane of Egypt. Cairo, Government Press, 1922. 16 p. (Egypt. Min. Agr. Tech. & Sci. Service Bul. 26, Entom. Section.)

Howarth, O. J. R.
The British Association for the Advancement of Science: a retrospect 1831-1921... London, The Association, 1922. 318 p., illus., plates. Biographical notes, p. 282-310.

Perrier de la Bathie, Ernest.
Les insectes des orgues. Ugine (Savoie), Chez l'auteur, 1922. 12 p., illus.

Petrunkevitch, A. I.
Tertiary spiders and opilionids of North America... New Haven, Conn., Connecticut Academy of Arts and Sciences, 1922. illus. (Trans. Conn. Acad. Arts & Sciences, v. 25, p. 211-279.)

Richter, Victor von.
Organic chemistry, v. 3. Heterocyclic compounds. tr. from the 11th German ed. by E. E. Fournier d'Albe. London, Kegan Paul, Trench, Trubner & Co. Ltd., Philadelphia, P. Blakiston's Son & Co., 1923. 326 p.

Schneider-Orelli, O.
Die Reblaus und unser Weinbau. Zurich, Beer & Cie, 1923. 15 p., illus., 4 pl. (Neujahrsblatt hrsg. von der Naturforschenden Gesellschaft in Zurich an das Jahr 1923. 125. Stück.)

Shaw, Norman.
Manchurian tussore silk. London, Charles Odell, 1912, 43 p.

Sorauer, P. K. M.
Handbuch der Pflanzenkrankheiten... 4. Aufl. hrsg. von Paul Graebner... G. Lindau und L. Heh. Berlin, P. Parey, 1923. Bd. 3, illus. Contents: Bd. 3, Die pflanzlichen Parasiten, 2. t. 1923.

South Dakota--Entomologist.
Thirteenth annual report... June 30, 1922, H . C. Severin, Entomologist. Brookings, S. Dak., Office of the S. Dak. State College, 1923. 67 p., illus.

Thiem, H.
Die Frostspannerplage im Niederungsgebiet der Weichsel bei Marienwer der Wstpr. und Beiträge zur Biologie des kleinen Frostspanners. Berlin, Verlagsbuchhandlung Paul Parey; Verlagsbuchhandlung Julius Springer, 1922. 94 p., illus.

Root, A. I., and Root, E. R.
A B C and X Y Z of bee culture. Medina, O., The A. & I. Root Co., 1923.

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